

## **AMENDMENTS TO THE CLAIMS**

This listing of claims replaces all previous claims, and listings of claims, in the application:

### **Listing of Claims:**

**Claim 1 (Previously Presented):** A chuck device for containers comprising:

a supporting structure;

a pair of arms rotatably supported on said supporting structure by way of a pair of arm shafts, chuck claws for grasping a container being disposed on ends of said pair of arms that open and close in tandem with a rotation around said arm shafts; and

an operation member capable of being externally operated;

wherein:

inward from said pair of arms is disposed a first drive section capable of integrally rotating around said arm shaft of a first arm and being integral with said first arm, and a second drive section disposed further toward said end of said arm than said first drive section and capable of rotating integrally around said arm shaft of a second arm and being integral with said second arm;

a biasing mechanism which biases said pair of arms around said arm shafts in a direction of closing said ends of said arms;

a motion input mechanism disposed between said operation member and said first drive section which converts motion accompanying external operation of said operation member to a rotation motion of said first drive section centered around said arm shaft; and

a coupling mechanism disposed between said first drive section and said second drive section which converts rotational motion of said drive section around said arm shaft to a rotational motion of said second drive section around said arm shaft.

**Claim 2 (Previously Presented):** A chuck device as described in claim 1 wherein said motion input mechanism comprises a cam mechanism to convert a motion of said operation member to rotation motion of said first drive section.

**Claim 3 (Previously Presented):** A chuck device as described in claim 2 wherein:  
said cam mechanism of said motion input mechanism is equipped with an arm drive cam supported by said support structure to allow rotation around a cam axis line parallel to said arm shaft, a cam surface being formed on an outer perimeter of said arm drive cam; said arm drive cam being disposed opposite from said second drive section relative to said first drive section;  
such that said arm drive cam being rotated by operation of said operation member from outside;

as said arm drive cam rotates, said cam surface of said arm drive cam moves back and forth between a position where said first drive section is pushed out toward said second

drive section and a position where said first drive section is retracted to an opposite side from said second drive section.

**Claim 4 (Original):** A chuck device as described in claim 3 wherein a first roller that comes into contact with said cam surface of said arm drive cam is disposed on said first drive section.

**Claim 5 (Original):** A chuck device as described in claim 3 wherein:  
a roller shaft parallel to said arm shaft is disposed on said first drive section; and  
on said roller shaft, there is disposed a first roller coming into contact with said cam surface of said arm drive cam, and a second roller coming into contact with said second drive section.

**Claim 6 (Previously Presented):** A chuck device as described in claim 3 wherein a support section is disposed on said cam surface of said arm drive cam to support said first drive section at said position pushed out toward said second drive section.

**Claim 7 (Previously Presented):** A chuck device as described in claim 1 wherein said coupling mechanism comprises a cam mechanism to convert rotation motion of said first drive section to rotation motion of said second drive section.

**Claim 8 (Original):** A chuck device as described in claim 7 wherein said cam mechanism of said coupling mechanism is equipped with a cam surface disposed on said second drive section and coming into contact with said first drive section.

**Claim 9 (Previously Presented):** A chuck device as described in claim 1 wherein said biasing mechanism includes a spring disposed between said support structure and said second arm and biasing said second arm so that said chuck claws are biased in a closing direction.

**Claim 10 (Previously Presented):** A chuck device as described in claim 1 wherein said biasing mechanism includes torsion coil springs on each of said pair of arm shafts to bias said pair of arms so that said ends are biased in a closing direction.

**Claim 11 (Previously Presented):** A chuck device as described in claim 3 wherein:

    said biasing mechanism includes, torsion coil springs disposed on each of said pair of arm shafts to bias said pair of arms so that said ends are biased in a closing direction; and  
    both ends of a cam shaft rotatably supporting said pair of arm shafts and said arm drive cam are supported by said supporting structure.

**Claims 12-19 (Cancelled)**

**Claim 20 (Currently Amended):** ~~A chuck device as described in claim 18~~  
wherein: In a chuck device wherein a chuck claw is removably mounted on an end of an  
arm driven to perform a grasping action,

a chuck device wherein:

a cylindrically indented bearing surface is disposed on said arm;

a holding piece equipped with a cylindrical outer perimeter surface curved along  
said bearing surface is disposed on said bearing surface using a bolt;

a chuck bearing is disposed on said arm to receive reaction generated on said chuck  
claw during said grasping action;

said bearing surface is formed to connect with a side of said chuck bearing section  
that comes into contact with said chuck claw;

said bolt is set up to attach to said bearing surface in such a direction that, going  
toward a rear end of said arm, said bolt extends from said bearing surface toward a back  
surface relative to a side of said arm in contact with said chuck claw; and

an attachment base curved along said bearing surface and capable of being inserted  
between said support piece and said bearing surface disposed on said chuck claw.

**Claim 21 (Currently Amended):** ~~A chuck device as described in claim 20~~  
wherein: In a chuck device wherein a chuck claw is removably mounted on an end of an  
arm driven to perform a grasping action,

a chuck device wherein:

a cylindrically indented bearing surface is disposed on said arm;  
a holding piece equipped with a cylindrical outer perimeter surface curved along  
said bearing surface is disposed on said bearing surface using a bolt;  
a chuck bearing is disposed on said arm to receive reaction generated on said chuck  
claw during said grasping action;  
said bearing surface is formed to connect with a side of said chuck bearing section  
that comes into contact with said chuck claw;  
said bolt is set up to attach to said bearing surface in such a direction that, going  
toward a rear end of said arm, said bolt extends from said bearing surface toward a back  
surface relative to a side of said arm in contact with said chuck claw; and  
an attachment base curved along said bearing surface and capable of being inserted  
between said support piece and said bearing surface disposed on said chuck claw;  
a slit is formed on said attachment base of said chuck claw to allow said bolt to pass  
through;  
an arm shaft rotatably supporting said arm is disposed behind said bearing surface;  
and  
said bolt is screwed in between said bearing surface and said arm shaft.

**Claims 22-27 (Cancelled)**